

AMENDMENTS TO THE CLAIMS

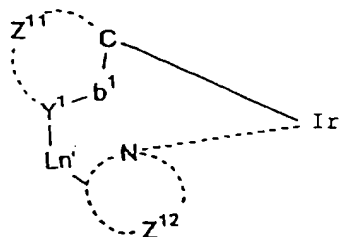
This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

Claims 1-4 (canceled).

1
B
Claim 5 (currently amended): An organic light-emitting device comprising a light-emitting layer or a plurality of thin organic compound layers containing a light-emitting layer formed interposed between a pair of electrodes, wherein at least one layer comprises a light-emitting material having a partial structure represented by the following formula (4) to (7) and (9), (21), (22) or a tautomer thereof:

wherein R^1 and R^2 each represent a substituent; and q^1 and q^2 each represent an integer of from 0 to 4, with the proviso that the sum of q^1 and q^2 is 1 or more,



(4)

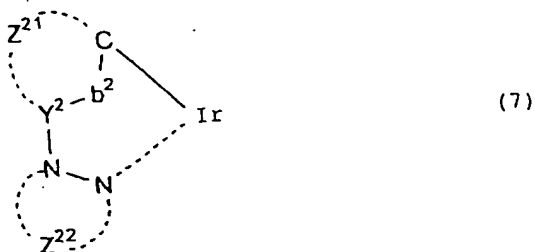
wherein Z^{11} and Z^{12} each represent a nonmetallic atom group required to form a 5- or 6-membered ring with at least one of carbon atom and nitrogen atom, said ring optionally having a substituent or forming a condensed ring with ~~the other~~ another ring; Ln^1 represents a divalent group; Y^1 represents a nitrogen atom or carbon atom; and b^1 represents a single bond or double bond,



wherein CO represents a carbonyl group and the carbon atom directly bonds to Ir,



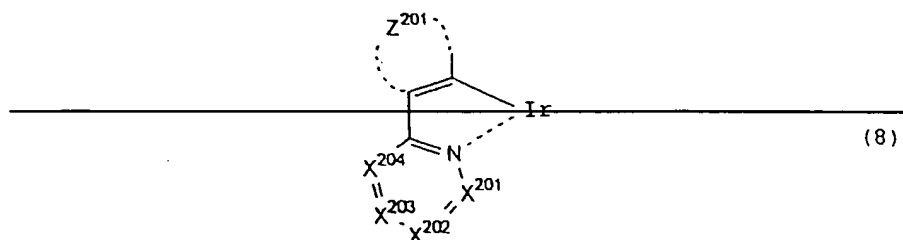
wherein CN represents a cyano group and the carbon atom directly bonds to Ir,



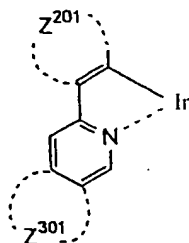
wherein Z^{21} and Z^{22} each represent a nonmetallic atom group required to form a 5- or 6-membered ring ~~with at least one of carbon atom and nitrogen atom~~, said ring optionally having a substituent or forming a condensed ring with ~~the other~~ another ring; Y^2 represents a nitrogen atom or carbon atom; and b^2 represents a single bond or double bond, Z^{22} represents a

B1
Cont'd

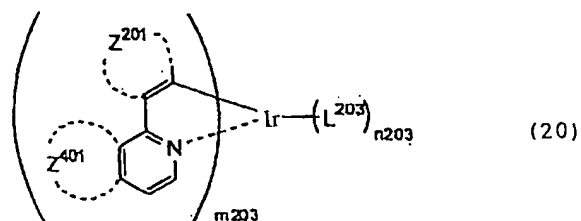
nonmetallic atom group required to form an ~~imidazole ring, thiazole ring, oxazole ring, pyrrole ring, a 1,2,3-triazole ring, a 1,2,4 triazole ring, pyridine ring or pyrimidine ring or a pyridazine ring,~~



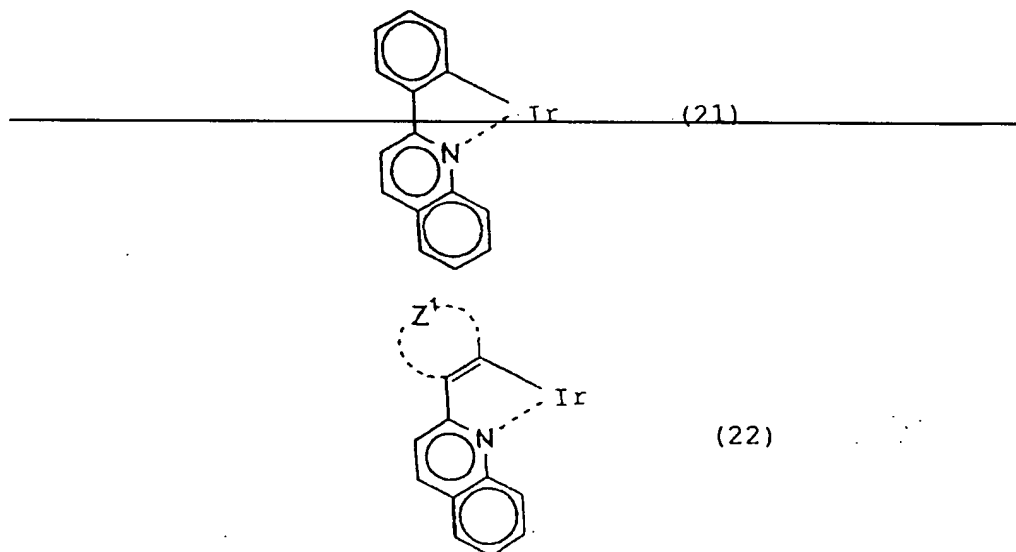
wherein ~~X²⁰¹, X²⁰², X²⁰³ and X²⁰⁴ each represent a nitrogen atom or C-R and forms a nitrogen-containing heteroaryl 6-membered ring with C=N, with the proviso that at least one of X²⁰¹, X²⁰², X²⁰³ and X²⁰⁴ represents a nitrogen atom; R represents a hydrogen atom or substituent; and Z²⁰¹ represents an atomic group for forming an aryl or heteroaryl ring,~~



wherein Z²⁰¹ and Z³⁰¹ each represent an atomic group for forming an aryl or heteroaryl ring,



wherein Z^{201} and Z^{401} each represent an atomic group for forming an aryl or heteroaryl ring, L^{203} is a nitrogen-containing heterocyclic ligand required to form an orthometalated iridium complex to coordinate Ir metal as bidentate ligand, m203 represents an integer of from 1 to 3 and n203 represents an integer of from 0 to 2, and m203 and n202 represent the number of ligands required to satisfy a coordination number 6 or iridium.



wherein Z^1 represents an atomic group which forms a heteroaryl ring.

Claim 6 (previously presented): An organic light-emitting device according to claim 5, wherein at least one layer consists essentially of the light-emitting material.

Claim 7 (original): The light-emitting device according to Claim 5, wherein said layer comprising the light-emitting material is formed by a coating process.

Claims 8-9 (canceled).

Claim 10 (currently amended): The organic light-emitting device according to claim 5, wherein Z^{22} Z^{21} of formula (7) represents a nonmetallic atom group required to form an imidazole ring, thiazole ring, pyrrole ring, pyridine ring or pyrimidine ring.

Claim 11 (previously presented): The organic light-emitting device according to claim 5, wherein m203 is 3 and n203 is 0.

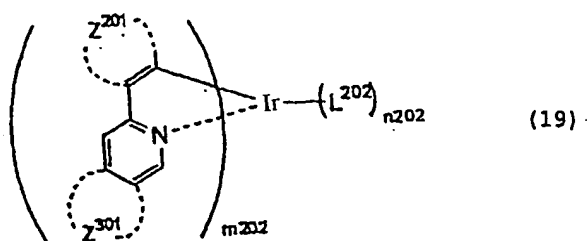
Claim 12 (previously presented): The organic light-emitting device according to claim 5, wherein m203 is 2 and n203 is 1.

Claim 13 (previously presented): The organic light-emitting device according to claim 5, wherein m203 is 1 and n203 is 2.

Claim 14 (currently amended): The organic light-emitting device according to claim 5, wherein L^{202} L^{203} of formula (20) is a N,C-orthometalating ligand.

Claim 15 (currently amended): ~~The~~ An organic light-emitting device according to claim 5, wherein formula (9) is comprising a light-emitting layer or a plurality of thin organic compound layers containing a light-emitting layer formed interposed between a pair of

electrodes, wherein at least one layer comprises a light-emitting material having a partial structure represented by formula (19) or a tautomer thereof:



wherein Z^{201} and Z^{301} each represent an atomic group for forming an aryl or heteroaryl ring, L^{202} is a ligand required to form an orthometalated iridium complex, nitrogen-containing heterocyclic ligand or diketone ligand, n202 represents an integer of from 0 to 4 and m202 represents an integer of from 1 to 3, and n202 and m202 represent the number of ligands required to satisfy a 6 coordination number of iridium.

Claim 16 (previously presented): The organic light-emitting device according to claim 15, wherein L^{202} is a ligand required to form an orthometalated iridium complex.

Claim 17 (previously presented): The organic light-emitting device according to claim 15, wherein m202 is 3 and n202 is 0.

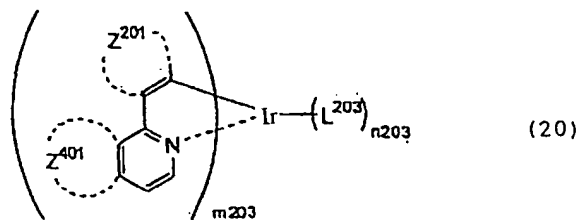
Claim 18 (new): The organic light-emitting device according to claim 5, wherein the partial structure is represented by formula (4).

Claim 19 (new): The organic light-emitting device according to claim 5, wherein the partial structure is represented by formula (7).

Claim 20 (new): The organic light-emitting device according to claim 5, wherein the partial structure is represented by formula (9), wherein Z^{201} represents an atomic group for forming a heteroaryl ring.

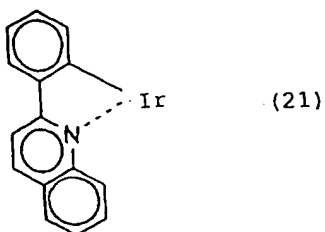
Claim 21 (new): The organic light-emitting device according to claim 5, wherein the partial structure is represented by formula (22).

Claim 22 (new): An organic light-emitting device comprising a light-emitting layer or a plurality of thin organic compound layers containing a light-emitting layer formed interposed between a pair of electrodes, wherein at least one layer comprises a light-emitting material having a partial structure represented by the following formula (20) or a tautomer thereof:

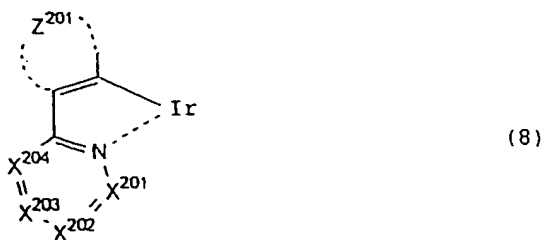


wherein Z^{201} represents an atomic group for forming a heteroaryl ring and Z^{401} represents an atomic group for forming an aryl or heteroaryl ring, L^{203} is a ligand required to form an orthometalated iridium complex to coordinate Ir metal as bidentate ligand, m^{203} represents an integer of from 1 to 3 and n^{203} represents an integer of from 0 to 2, and m^{203} and n^{203} represent the number of number of ligands required to satisfy a coordination number 6 of iridium.

Claim 23 (new): An organic light-emitting device comprising a light-emitting layer or a plurality of thin organic compound layers containing a light-emitting layer formed interposed between a pair of electrodes, wherein at least one layer comprises a light-emitting material having a partial structure represented by the following formula or a tautomer thereof:

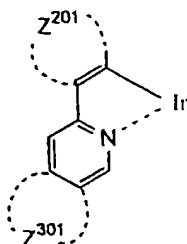


Claim 24 (new): An organic light-emitting device comprising a light-emitting layer or a plurality of thin organic compound layers containing a light-emitting layer formed interposed between a pair of electrodes, wherein at least one layer comprises a light-emitting material having a partial structure represented by the following formula (8) or a tautomer thereof:



wherein X^{201} , X^{202} , X^{203} and X^{204} each represent a nitrogen atom or C-R and forms a nitrogen-containing heteroaryl 6-membered ring with $-C=N-$, with the proviso that at least one of X^{201} , X^{202} , X^{203} and X^{204} represents a nitrogen atom; R represents a hydrogen atom or substituent; and Z^{201} represents an atomic group for forming an aryl or heteroaryl ring.

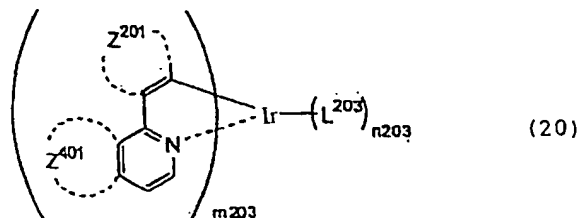
Claim 25 (new): An organic light-emitting device comprising a light-emitting layer or a plurality of thin organic compound layers containing a light-emitting material having a partial structure represented by the following formula (9) or a tautomer thereof:



(9)

wherein Z^{201} and Z^{301} each represent an atomic group for forming an aryl or heteroaryl ring.

Claim 26 (new): An organic light-emitting device comprising a light-emitting layer or a plurality of thin organic compound layers containing a light-emitting layer formed interposed between a pair of electrodes, wherein a least one layer comprises a light-emitting material having a partial structure represented by the following formula or a tautomer thereof:



wherein Z^{201} and Z^{401} each represents an atomic group for forming an aryl or heteroaryl ring, L^{203} is a nitrogen-containing heteroaryl ligand to coordinate Ir metal as bidentate ligand, m_{203} represents an integer of from 1 to 3 and n_{203} represents an integer of from 0 to 2, and m_{203} and n_{202} represent the number of ligands required to satisfy a coordinating number 6 of iridium.

B
Cmtd